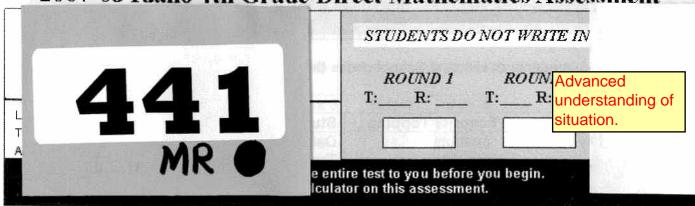
## 2007-08 Idaho 4th Grade Direct Mathematics Assessment



1. In the spring, Lewis and Clark saw 749 buffalo, 15 mountain sheep, 1,305 prairie dogs, 14 grizzly bears, and 426 deer.

a. How many more prairie dogs were there than buffalo? Show how you found your answer.

There were prairie dogs than b. How many animals did Lewis and Clark see in all? Show how you found your

Minimal or non-existent

Lewis and Clark saw a total of 2,509 animals. T

c. In the summer, Lewis and Clark saw three times more grizzly bears than in the spring. How many bears did they see? Show how you found your answer.

42 grizzly beers.

d. Lewis and Clark saw a total of 15 sheep non three different mountains. Each mountain had the same amount of sheep. How many sheep did Lewis and Clark see on each mountain? Show how you found your answer.

Advanced application of basic skills.





of the three mountains.

Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to answer. Answer ALL of the parts of the three problems you select to answer. Cross out the one problem that you do not choose to answer.

2. The 4th grade students at Hillcrest School chose their favorite ice cream topping. The results are below.

Student	Favorite Topping	Student	Favorite Topping	
Tommy	peanuts	Debbie	3chocolate syrup	
Julie	sprinkles	Trevor	peanuts	
Nick	f chefries	Zack	cookie crumbs	
David	peanuts	Johnny	peanuts	
Joseph	peariuts	Diane		
Kim	∠ sprinkles	Becky	zsprinkles	
Nancy	chocolate syrup	Tim		
Tiffany	Zchocolate syrup	Cathy		
Jimmy	Zcherries	Chris		
			200	

a. Organize the information to show how many students chose each kind of topping. Show how you found your answer.

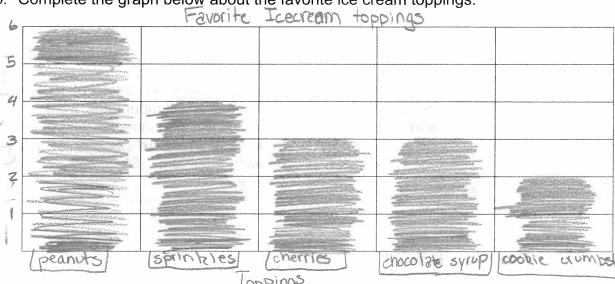
peanuts=WIO sprinkles=1111@ cherries=111 3 Chocolate syrup=111 B cookie crumbs=110

Appropriate processes accurately completed.

b. Complete the graph below about the favorite ice cream toppings.



Number of



c. Using the data from the graph, write two math statements that are true.

1. A lot of students like peanuts has the treatment topping. Z. Cherries and chocolate syrup are tied.

- 3. Jim collects toy cars. He sorts them into boxes. He put one in the first box, four in the second box, and seven in the third box.
  - a. Complete the chart below showing the number of cars Jim will put in each box.

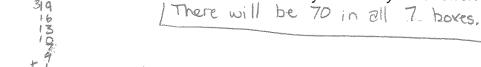
,	Box 1	Box 2	Box 3	Box 4	Box 5
Number of Cars	1	4	7	10	13

Communicates effectively.

b. Continuing this pattern, how many will Jim put in the seventh box? Show how you found

0	ur answe	r.He w	III put 1	gin	the 71	2 50%	
	Box	Box Z	Box 3	Box 4/	Box 5	Box 6 Box 7	
фиципали		4	and the second s	101	13	16 19	••

c. How many total cars will there be in all seven boxes? Show how you found your answer.

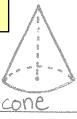


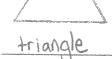
d. Explain the rule for this pattern. Show how you found your answer. 3 3 43 7 You add 3 to each number each time. Example: 3 6 9

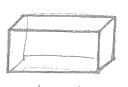
4. a. Write the name of each shape.

Multiple problem-solving strategies.

Advanced communication.







rectangular prism

b. Which two shapes are more alike? Explain your thinking.

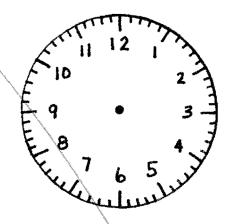
The cube and rectangular prism are most alike because they both have 6 faces, 8 corners, and 12 edges.

Advanced vocabulary.

c. Choose a shape above. Describe its attributes.

The rectangular prism has 6 faces, 12 edges, and 8 corners.

5. Maria spent each Monday night after school doing the following activities: 20 minutes doing math, 30 minutes practicing gymnastics, 15 minutes studying spelling words, 5 minutes practicing math facts, and 1 hour of free play.



a. What is the total time she spends on these activities? Show how you found your answer.

b. If she started these activities at 4:15 P.M., what time would she finish? Show how you found your answer.

c. On one Monday night, Maria started her activities at 4:15 P.M. Her mother told her to be finished by 6:00 P.M. Which activities could she choose so that she finished by 6:00 P.M.? Show how you found your answer.